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Abstract of the Disclosure

A direct electrodynamic linear drive comprising a drive coil system composed of coils arranged in a row alongside each other on an elongated ferromagnetic core, which coil is able to be supplied with a switched exciting voltage. The drive coil system has a ferromagnetic tube fitting around it, on whose inner side a plurality of permanent magnets are arranged in a row in the longitudinal direction of the tube. The core provided with the drive coil system is adapted to function as a stator and the tube having the permanent magnets as an armature. In this arrangement the ferromagnetic tube serves as a guide tube, as a magnetic return member and as a holder means for the permanent magnets, the possibility of a simple and accurate longitudinal guiding of the tube meaning that elongated units with a small cross section may be manufactured.

A ~~Figure 1~~